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**From:** Anderson, Brian [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CE7D6E5AD2E94B3F8F5AC4D839A6C268-BRIAN ANDERSON]  
**Sent:** 11/6/2018 12:17:49 PM  
**To:** Panger, Melissa [Panger.Melissa@epa.gov]  
**Subject:** RE: Endangered Species Consultations - Mosquito Control Meeting

I think so – if you just say there are minor changes to a previously cleared abstract, it should go fast.

Thanks Melissa!

Brian

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**From:** Panger, Melissa  
**Sent:** Tuesday, November 06, 2018 7:16 AM  
**To:** Anderson, Brian <Anderson.Brian@epa.gov>  
**Subject:** RE: Endangered Species Consultations - Mosquito Control Meeting

Thanks! Hopefully this will fly... it's geared toward ag uses, and not the non-ag uses. Maybe I can tweak it a bit and still get it through quickly...

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Melissa Panger, Ph.D.  
Senior Advisor, ERB2  
Environmental Fate and Effects Division  
Office of Pesticide Programs  
USEPA

703-305-6136  
[panger.melissa@epa.gov](mailto:panger.melissa@epa.gov)

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**From:** Anderson, Brian  
**Sent:** Tuesday, November 06, 2018 7:12 AM  
**To:** Panger, Melissa <[Panger.Melissa@epa.gov](mailto:Panger.Melissa@epa.gov)>  
**Subject:** RE: Endangered Species Consultations - Mosquito Control Meeting

**Title:** Incorporating usage data to identify areas where pesticide exposure to listed species is most likely to occur

**Authors:** Kristina Garber, Jennifer Connolly, Steven Lennartz, Melissa Panger, Charles Peck, Colleen Rossmeisl, William Eckel, Brian Anderson

**Abstract:** The United States (US) Environmental Protection Agency registers uses of pesticides in the US and its territories. As such, a national level registration of a pesticide may have potential exposure to large portions of the ranges of endangered and threatened species. For registrations that apply to agricultural uses (*e.g.*, corn, apples), the US Department of Agriculture's cropland data layer (CDL) can be used to identify potential pesticide use sites in the 48 conterminous states. Additional data are also available to identify where a pesticide has been applied (termed "usage" data). Combining usage data with CDL landcovers can help identify areas where pesticide applications are most likely to occur. Subsequently, likely use sites can be compared with listed species ranges to determine the most likely proportion of the species range or population that may be exposed. One major challenge to this approach involves fitting data from different scales. Combining these data requires some assumptions related to distributions of sites where the pesticide is

applied relative to the species range. This presentation will discuss some of the benefits and challenges of incorporating usage data into risk assessments and some options to overcome the challenges.

**Disclaimer:** This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication.

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**From:** Panger, Melissa  
**Sent:** Tuesday, November 06, 2018 7:02 AM  
**To:** Anderson, Brian <[Anderson.Brian@epa.gov](mailto:Anderson.Brian@epa.gov)>  
**Subject:** FW: Endangered Species Consultations - Mosquito Control Meeting

Hi Brian,

Looks like AMCA would like a title and abstract by Nov. 15. Would you mind sending me the title and abstract from your ACS talk on ESA and usage data.... It would probably be best to use materials already cleared and the talk can be tweaked as needed.

Thanks!  
Melissa

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**From:** Angela Beehler [<mailto:angela@mosquitocontrol.org>]  
**Sent:** Monday, November 05, 2018 7:35 PM  
**To:** Panger, Melissa <[Panger.Melissa@epa.gov](mailto:Panger.Melissa@epa.gov)>  
**Cc:** Heather Gosciniak <[hgosciniak@ahint.com](mailto:hgosciniak@ahint.com)>  
**Subject:** RE: Endangered Species Consultations - Mosquito Control Meeting

Melissa,

I'd like to have titles, abstracts, and order of the presentations finalized no later than November 15<sup>th</sup>. I can make it extremely generic if need be to avoid communications clearance. I'm copying Heather, our Executive Director, so she can weigh in.

<https://cdn.ymaws.com/www.mosquito.org/resource/resmgr/amcaschedule.pdf> This agenda does not have much detail. I'm not sure when the Program Chair will schedule the Regulatory Symposium or the Pollinator session, I'd imagine you'd be want to attend both those. Heather may have insider information.

Angela

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**From:** Panger, Melissa [<mailto:Panger.Melissa@epa.gov>]  
**Sent:** Monday, November 5, 2018 6:09 AM  
**To:** Angela Beehler <[angela@mosquitocontrol.org](mailto:angela@mosquitocontrol.org)>  
**Cc:** Anderson, Brian <[Anderson.Brian@epa.gov](mailto:Anderson.Brian@epa.gov)>  
**Subject:** RE: Endangered Species Consultations - Mosquito Control Meeting

Thanks, Angela.

When do you need the title and abstract by? We have an internal EPA clearance process we have to work through, and having a due date will be helpful.

Also, do you have a copy of the draft agenda for the meetings (it will help us to decide on when I should arrive for the meetings)?

Please let me know if you have any questions.

Thanks,  
Melissa

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**From:** Angela Beehler [<mailto:angela@mosquitocontrol.org>]  
**Sent:** Friday, November 02, 2018 5:34 PM  
**To:** Panger, Melissa <[Panger.Melissa@epa.gov](mailto:Panger.Melissa@epa.gov)>  
**Subject:** Endangered Species Consultations - Mosquito Control Meeting

Ms. Panger,

The abstract below is being used as a placeholder for the Endangered Species Act/Pesticide Consultation conversation I would like to host during the Legislative and Regulatory Symposium at the American Mosquito Control Association Annual Meeting. Now is the time to add confirmed speakers, titles, and abstracts. I also need to know how much time you will need on the agenda.

Please respond with the following:

1. Title of your presentation
2. What you are comfortable discussing in the form of an abstract, and I will replace the one below or assign someone else cover the BiOp(s).
3. Your name and position title for the agenda.
4. How much time you need (less than or equal to 30 minutes).

Thank you for agreeing to present. It is always a pleasure having members of the agency attend. If you arrive early, please let me know so I can put you on the notification list for the Monday afternoon L&R Committee meeting.

Please let me know if you have any questions.

Angela Beehler  
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Benton County Mosquito Control District  
4951 W. Van Giesen Street  
West Richland, WA 99353  
Office Phone: (509) 967-2414

Legislative and Regulatory Committee Chairwoman  
American Mosquito Control Association

Abstract: All pesticide uses must be regularly reviewed for their impacts to people and the environment, this includes endangered species and critical habitat. In 2018, we got a glimpse of how mosquito control products would endure the Endangered Species Act consultation process as reports were released on the pilot project chemicals malathion, chlorpyrifos, and diazinon. The Environmental Protection Agency (EPA) determined that organophosphate pesticides used in mosquito control "may affect" 99% and are "likely to adversely affect" 97% of the endangered or threatened species in the U.S., and a follow-up study by the National Marine Fisheries Service (NMFS) concluded that about 50% of the listed species they oversee are in "jeopardy" of extinction, and about 75% of the critical habitats are likely to be adversely affected, if these pesticide registrations continue as they are today. These two reports have suddenly escalated the Endangered Species Act (ESA) to the front of the list of regulatory risks facing AMCA members. This presentation will focus on the status of registered uses of chlorpyrifos and malathion, the data gaps that lead to the agencies decisions, and how we can improve the process as more mosquito control products are evaluated.